AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1.-2. (Canceled).
- 3. (Currently amended) A method for detecting a protease in a biological sample, said method comprising:
- (1) contacting one of two or more substantially continuous slices of a biological sample with a dried thin membrane which comprises a protease substrate together with a cross-linking agent formed on a surface of a support, wherein said cross-linking agent is a vinylsulfonic acid-type cross-linking agent;
- (2) contacting the remaining slices with a dried thin membrane which comprises a protease substrate, a cross-linking agent, and a protease inhibitor formed on a surface of a support, wherein said cross-linking agent is a vinylsulfonic acid-type cross-linking agent;
- (3) detecting traces of digestion formed on the dried thin membranes by the action of protease; and
- (4) comparing the trace of digestion on the dried thin membrane used in step (1) with the trace of digestion on the dried thin membrane used in step (2).
 - 4. (Canceled).

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- 5. (Currently amended) A method for detecting a protease in a sample, said method comprising:
- (1) contacting a sample with a dried thin membrane which comprises at least the following two layers: layer (a) which contains a protease substrate, a cross-linking agent, and a protease inhibitor formed on a surface of a support, and layer (b) which contains a protease substrate and a cross-linking agent laminated on layer (a), wherein said cross-linking agent is a vinylsulfonic acid-type cross-linking agent;
- (2) detecting traces of digestion formed on the dried thin membrane by the action of protease; and
- (3) comparing the trace of digestion on layer (a) with the trace of digestion on layer (b).
 - 6.-20. (Canceled)
- 21. (Currently amended) The method of claim 3, wherein said cross-linking agent is selected from the group consisting of chrome alum, chromium acetate, formaldehyde, glyoxal, glutaraldehyde, dimethylolurea, methyloldimethylhydantoin, 2,3-dihydroxydioxane, carbenium, 2 napthalenesulfonate, 1,1-bispyrrolidino-1 chloro, pyridinium, 1 morpholinocarbonyl-3-(sulfonatoaminomethyl), 1,3-bisvinylsulfonyl-2-propanol, 1,2-bis(vinylsulfonylacetamido)-ethane, bis(vinylsulfonylmethyl) ether, 1,3,5-triacryloyl-hexahydro-s-triazine, bis(vinylsulfonyl)methane, 2,4-dichloro-6 hydroxy s-triazine, mucochloric acid,

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mucophenoxychloric acid, an isoxazole compound, dialdehyde starch, and 2 chloro-6hydroxytriazinylated gelatin.

22. (Currently amended) The method of claim 5, wherein said cross-linking agent is selected from the group consisting of-chrome alum, chromium acetate, formaldehyde, glyoxal, glutaraldehyde, dimethylolurea, methyloldimethylhydantoin, 2,3-dihydroxydioxane, carbenium, 2-napthalenesulfonate, 1,1-bispyrrolidino 1-chloro, pyridinium, 1-morpholinocarbonyl 3-(sulfonatoaminomethyl), 1,3-bisvinylsulfonyl-2-propanol, 1,2-bis(vinylsulfonylacetamido)-ethane, bis(vinylsulfonylmethyl) ether, 1,3,5-triacryloyl-hexahydro-s-triazine, bis(vinylsulfonyl)methane, 2,4-dichloro 6-hydroxy-s-triazine, mucochloric acid, mucophenoxychloric acid, an isoxazole compound, dialdehyde starch, and 2-chloro 6-hydroxytriazinylated gelatin.